

ABSTRACT

1 An intercooler for a vehicle engine incorporating an exhaust gas turbocharger
2 and an air conditioning system, the intercooler comprising: a charge air cooler loop
3 operatively connected to cool heated, pressurized air from the turbocharger before it
4 flows into the vehicle engine; and an air conditioning system bypass loop operatively
5 connecting the air conditioning system to the charge air cooler loop.